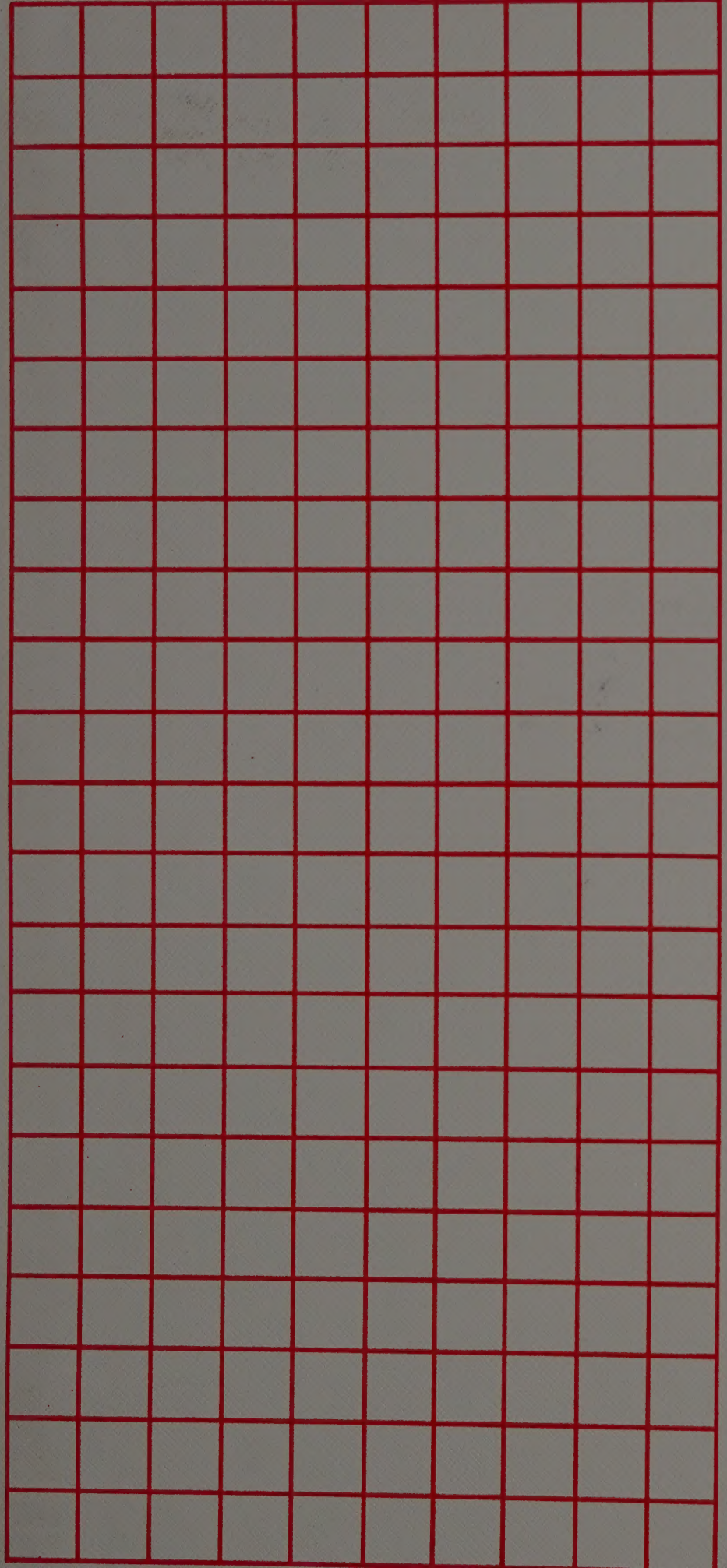

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WARRANTY

Guildline Instruments warrants its products to be free of defects in manufacture and normal operation for a period of 12 months from the date of purchase. This warranty applies only in the country of original purchase and only to the original purchaser who is also the end user.

Equipment which is defective or fails within the warranty period will be repaired or replaced at our factory without charge at the discretion of Guildline Instruments. Charges for shipping by original order shipping methods and carrier insurance to and from our factory are included.

Warranty coverage includes field analysis and repair at the customer's option subject to the availability of personnel. Travel time and travel plus living expenses for field service are not covered.

In addition, systems engineered by Guildline Instruments are warranted to be free of defects in overall system operation for a period of 12 months from date of receipt by the original purchaser.

System components purchased by Guildline carry the warranty of the original equipment manufacturer and will be accepted for claim by Guildline Instruments at our factory only after warranty authorization by the original manufacturer.

Warranty coverage does not apply to equipment which has failed due to misuse, neglect, accident or abnormal conditions of operation or if modifications or repairs have been made without prior authorization of Guildline Instruments.

Fuses, lamps and non-rechargeable batteries are not warranted. Glassware is not warranted against breakage. Temperature probes are not warranted against failure due to mechanical shock.

DAMAGE IN SHIPMENT TO ORIGINAL PURCHASER:
Instrument(s) should be thoroughly inspected immediately on receipt for visible damage. Any damage should be reported to the carrier and further inspection and operational tests should be carried out if appropriate to determine if there is internal damage. Normal repair procedures should then be followed. All final claims with the carrier must be completed by the purchaser.

Regular charges will apply to non warranty service.
External service charges and expenses will be billed at cost plus handling.

THE FOREGOING WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTY OF MERCHANTABILITY, FITNESS, OR ADEQUACY FOR ANY PARTICULAR PURPOSE OR USE. **GUILDLINE INSTRUMENTS SHALL NOT BE LIABLE FOR ANY SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, WHETHER IN CONTRACT, TORT, OR OTHERWISE.**

REGISTRATION

In order to receive manual update information, technical bulletins and other publications we feel will make your task easier, please fill in and return the attached registration card. Failure to return this registration will invalidate the warranty.

For Service
& Calibration
see over.

9106

REGISTRATION

Instrument Model _____ Serial Number_____
Firm Name: _____
Address: _____
_____
_____
Phone _____( )_____ Fax_____
Name of User _____
Your Application _____
_____
Signed_____ Date_____
Title _____

Guildline Calibration Services
A Prime Standards Laboratory

Before returning any equipment to us please obtain a return authorization number from Guildline Instruments either directly or through one of our representatives. This number must appear on all labels and all accompanying documentation otherwise shipping delays may occur. Shipments should be made by 'BEST WAY' prepaid.

Canada

•Contact Guildline Instruments Ltd., Canada
Tel: (613) 283-3000 •Telex: 053-3266 •FAX (613) 283-6082
for authorization number and shipping instructions.

U.S.A.

•Contact Guildline Instruments Inc., USA
Tel: (407) 423-8215 •FAX (407) 422-5987
for authorization number and shipping instructions.

International

•Contact your local representative or Guildline Instruments Ltd., Canada
Tel: (613) 283-3000 •Telex: 053-3266 •FAX (613) 283-6082
or write to P.O. Box 99, 21 Gilroy St.,
Smiths Falls, Ontario, Canada, K7A 4S9
for authorization number and shipping instructions.

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POSTAGE

GUILDLINE INSTRUMENTS LTD.
P.O. BOX 99, 21 GILROY ST.
SMITHS FALLS, ONTARIO
CANADA
K7A 4S9

TECHNICAL MANUAL
FOR
MODEL 9606
100 A REVERSING SWITCH

N O T I C E

The contents and information contained in this manual are proprietary to Guildline Instruments. They are to be used only as a guide to the operation and maintenance of the equipment with which this manual was issued and may not be duplicated or transmitted by any means, either in whole or in part, without the written permission of Guildline Instruments

TM9606-A-01

MODEL 9606

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SECTION 1
INTRODUCTION

1.1 SCOPE

This manual contains service and operating information for the Guildline Instruments Model 9606 Programmable 100 A Reversing Switch. It is intended for personnel who are familiar with laboratory grade electronic measuring instruments, analog circuits and measurement techniques using common service instruments.

1.2 RELATED DOCUMENTS

The following manuals should be read in conjunction with this manual:

- Model 9975 Current Comparator Resistance Bridge Technical Manual
- Model 9923 Range Extender Technical Manual

1.3 GENERAL DESCRIPTION

The Model 9606 Reversing Switch was designed to be used in conjunction with the Model 9923 Range Extender to extend the range of the Model 9975 Current Comparator Resistance Bridge downward. The unit is essentially a make-before-break, double-pole, double-throw switch in which the wiper position is controlled by an externally applied voltage. Currents of up to 100 A can be switched at frequencies of up to 2 s per cycle.

1.4 SPECIFICATIONS

Tabel 1-1 details the Model 9606 specifications.

TABLE 1-1

MODEL 9606 REVERSING SWITCH SPECIFICATIONS

Maximum Current:	100 A
Maximum Switching Frequency:	0.5 Hz
Programming Voltages:	±15 V at 7 < mA
Dimensions:	Depth - 278 mm (11")
	Width - 166 mm (6-1/2")
	Height- 126 mm (5")
Weight:	4.1 kg (9 lb)
Input Power:	less than 100 VA at 115 V, 60 Hz or 240 V, 50 Hz

SECTION 2

OPERATING NOTES

2.1 INITIAL INSPECTION

This instrument was thoroughly tested and inspected before shipment and should be free from electrical and mechanical damage when received. The customer should inspect it carefully, ensure that all items on the packing list are present and check the instrument operation as soon as possible. Refer to the warranty card at the front of this manual if any damage or deficiencies are found.

2.2 PRECAUTIONS

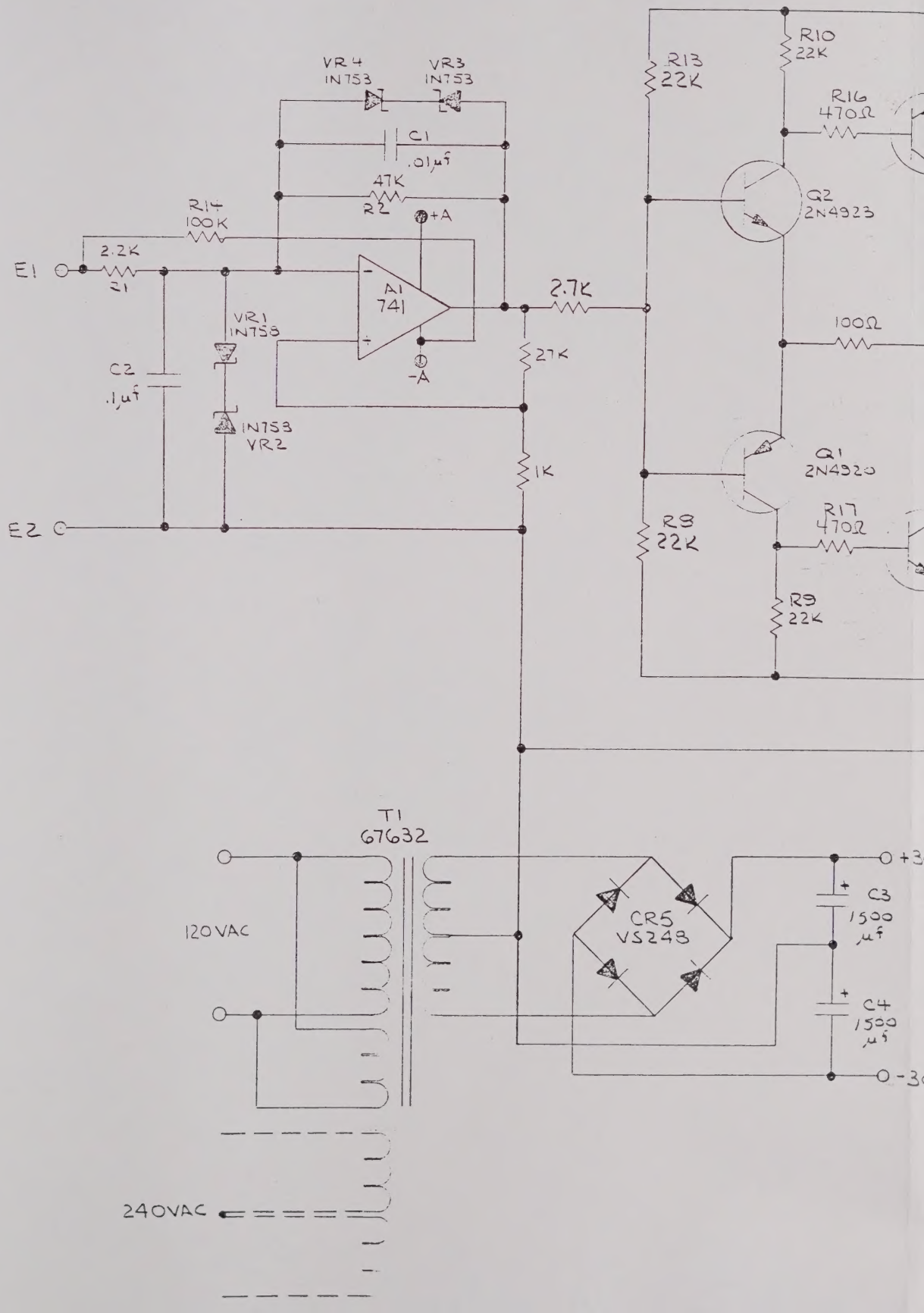
Ensure that the high current cables are as short as possible and that all connections are tight before applying power.

SECTION 3
DRAWINGS

NUMBER	TITLE
15308.01.04	Reversing Switch Schematic

REV E ECN No 2711	BILL OF MATERIALS GUILDLINE INSTRUMENTS LTD.	Bill No PL15308.01.02 Sht 1 of 1
Appr ✓ Date 16/12/85	Title GENERAL ASSEMBLY - REVERSING SWITCH	Model Number 9606

Code	Qty	Stock Number	Description	Cct Reference	Mfr Part Number	Mfr
S	1	15307.01.02	Control Circuit PCB			
F	3'	990-22001	Wire		1831	Alpha
S	1	250-04030	Power Cord		86537000	Panel Corp
S	1	099-02000	Fuse		AGC2	Littlefuse
B	1	15308.01.01	Mechanical Assembly			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IN753
VR3
IN753
C1
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47K
R2
+A
R14
100K
2.2K
R1
E1
E2
A1
741
-A
VR1
IN753
C2
.1μf
IN753
VR2
2.7K
27K
1K
R13
22K
R10
22K
R16
470Ω
Q2
2N4923
100Ω
Q1
2N4920
R8
22K
R17
470Ω
R9
22K
T1
67632
120VAC
240VAC
CR5
VS248
C3
1500
μf
C4
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μf
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REV B ECN 902 12-7-74
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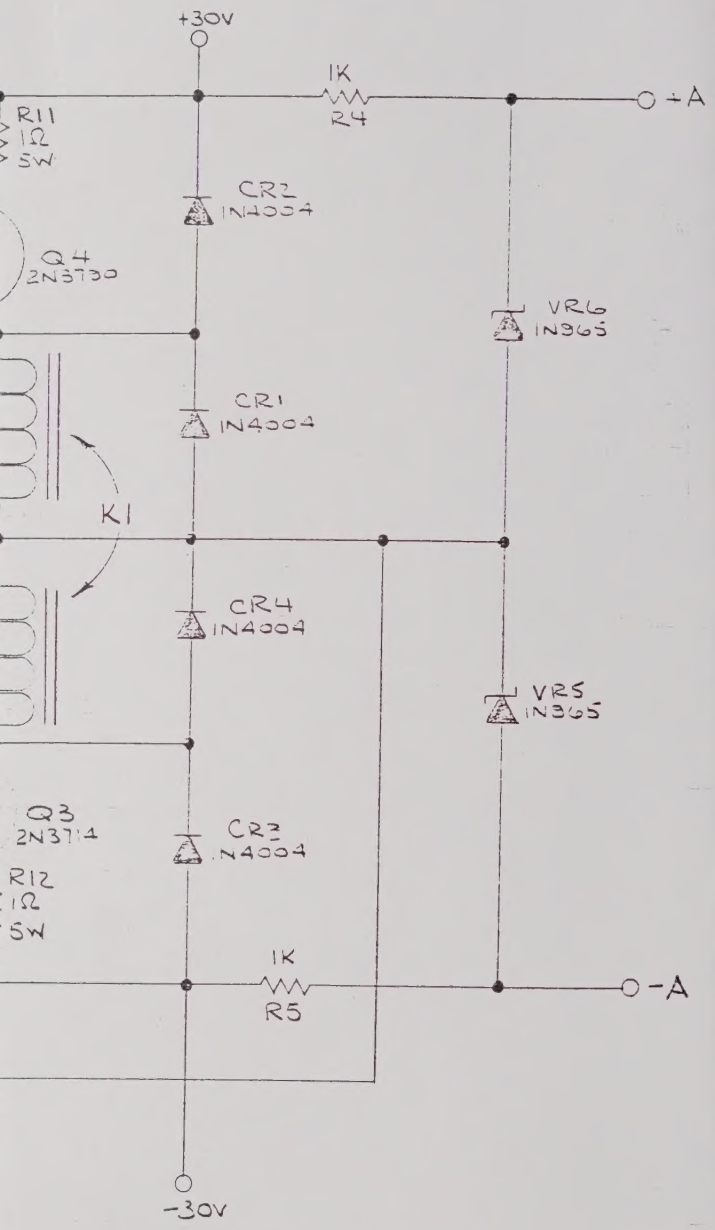

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	CHKD [illegible]	6-11-73	
9606	APPD IM	Nov 6 '73	
MODEL	SHT 1 OF 1	DWG NO E3038 01 04	REV C

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